

PROJECT DESCRIPTION  
GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY SIGNAL AT THE INTERSECTION OF MD 24 AND THE I-95 SOUTHBOUND RAMPS DURING THE MAINTENANCE OF TRAFFIC FOR STAGE 3 THRU 3C. THIS PHASE OF MOT INVOLVES THE INSTALLATION OF A TEMPORARY SPAN WIRE TRAFFIC SIGNAL WIRED TO A TEMPORARY CONTROLLER AT THIS INTERSECTION IN HARFORD COUNTY.

INTERSECTION OPERATION

A NEW BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS INTERSECTION. THE INTERSECTION SHALL OPERATE IN A SEMI-ACTUATED MODE USING 4 NEMA PHASES. VIDEO DETECTION SHALL BE PLACED INTO OPERATION. PRIOR TO COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA, AT 410-398-7631, TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND TELEPHONE NUMBER.

SPECIAL NOTES

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:  
PROJECT CONTACTS:  
MR. RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-2781  
MR. (TBD), ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 321-2821  
MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-2761  
MR. MIKE PASQUARIELLO, UTILITY ENGINEER  
PHONE: (410) 321-2841  
MR. RICHARD L. DAFF, SR., CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
MR. EDWARD RODENHIZER, SIGNAL OPERATIONS CHIEF  
PHONE: (410) 787-7650  
MR. EUGENE BAILEY, SIGN OPERATIONS MANAGER  
PHONE: (410) 787-7676  
MS. ROXANE MUKAI, TRAFFIC MANAGER MARYLAND TRANSPORTATION AUTHORITY  
PHONE: (410) 288-8484

EQUIPMENT LIST

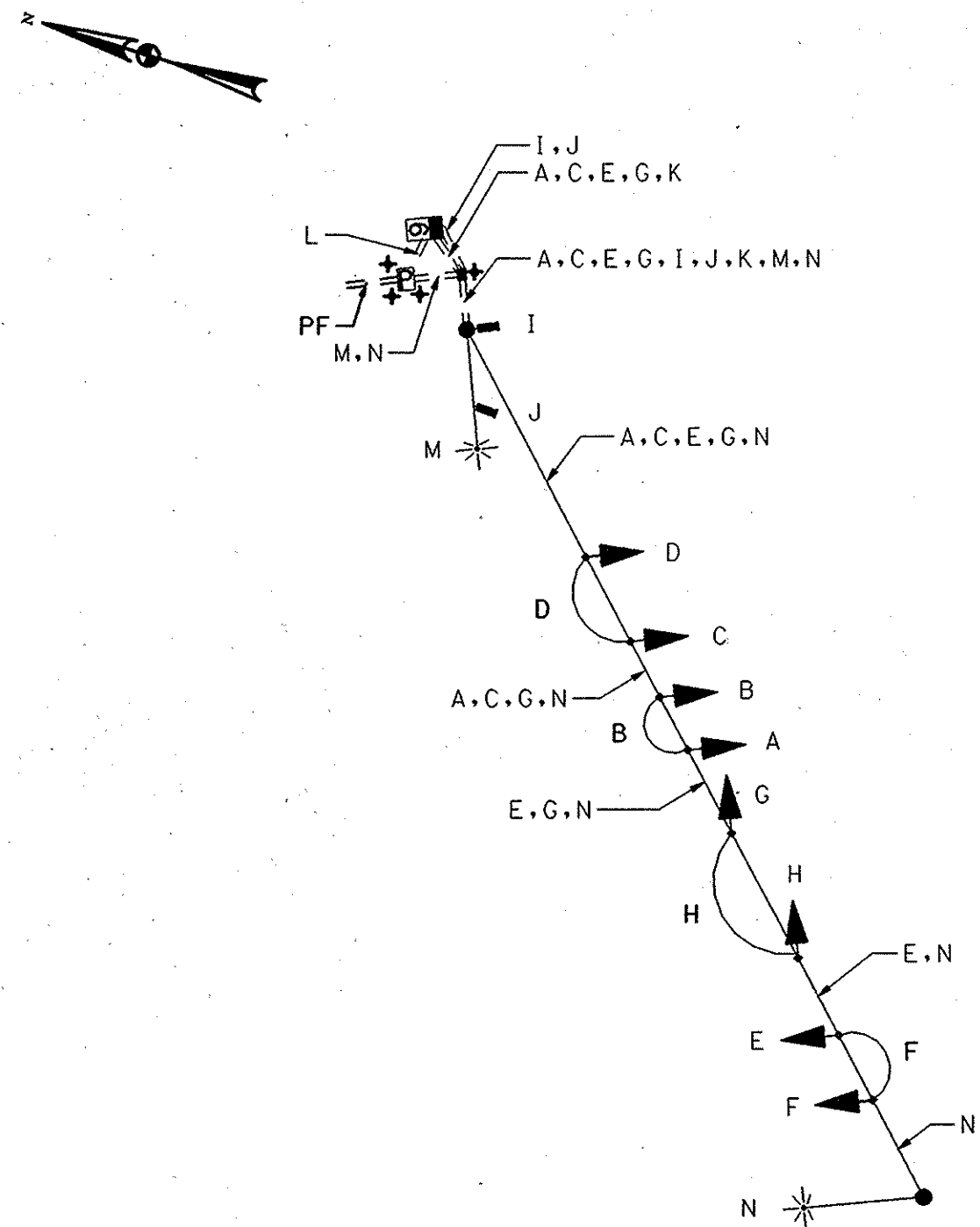
A. EQUIPMENT TO BE SUPPLIED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	NEMA (SIZE 6) CABINET (MSHA SPECIFICATIONS)	EA	1
973023	WITH VIDEO DETECTION INTERFACE EQUIPMENT FOR 1-4 CAMERAS SHEET ALUMINIUM SIGNS CONSISTING OF R3-5(L) (30" X 36") SPAN WIRE MOUNT (2 EA)	SF	15

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
114245	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKING	LF	110
203030	TEST PIT EXCAVATION	CY	2
800000	CONTROL CABLE 100 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
800000	REMOVE AND DISPOSE EXISTING MATERIAL AND EQUIPMENT	LS	1
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	12
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	40
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	20
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	10
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	20
807202	METERED SERVICE PEDESTAL	EA	1
811001	ELECTRICAL HANDHOLE	EA	1
813015	INSTALL OVERHEAD SIGN	SF	15
816001	VIDEO DETECTION CAMERA	EA	2
818009	14" X 32" STRAIN POLE (2 PLY)	EA	2
831010	250 WATT HPS LAMP AND LUMINAIRE	EA	2
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	4
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	24
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	90
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	660
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	330
861117	ELECTRICAL CABLE - 3 WIRE (NO. AWG 4)	LF	30
866104	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	2
869101	STEEL SPAN WIRE - 1/4 INCH DIAMETER	LF	200
869102	STEEL SPAN WIRE - 3/8 INCH DIAMETER	LF	200
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

WIRING DIAGRAM



KEY

- B } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)  
D }  
F }  
H }  
A } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)  
C }  
E }  
G }  
I } VIDEO DETECTION CABLE  
J }  
K } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE  
L } 3 WIRE 1 CONDUCTOR (NO. 4 AWG THHN/THWN)  
M } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE  
N }  
PF } POWER SERVICE UNDERGROUND (BY OTHERS)  
+ } GROUND ROD

PHASE CHART

1	2	3	4	5	6	7	8
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 2 AND 5	←G←	←G←	G	G	R	R	R	R	→
2 AND 5 CHANGE	←Y←	←Y←	G	G	R	R	R	R	→
PHASE 2 AND 6	←R←	←R←	G	G	G	G	R	R	→
2 AND 6 CHANGE	←R←	←R←	Y	Y	Y	Y	R	R	→
PHASE 7	←R←	←R←	R	R	R	R	G	G	→
7 CHANGE	←R←	←R←	R	R	R	R	Y	Y	→
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	→



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 24 AT I-95 SOUTHBOUND RAMPS  
IMPROVEMENTS TO I-95 AND MD 24 INTERCHANGE

GENERAL INFORMATION SHEET

SCALE NTS DATE JULY 7, 2006 CONTRACT NO. KH-271-000-002

DESIGNED BY T. WELLS COUNTY HARFORD  
DRAWN BY T. WELLS LOGMILE  
CHECKED BY J. CLARK T. I. M. S. NO.  
F. A. P. NO. TOD NO.

DMJM HARRIS | AECOM

DRAWING NO. PSG OF N021/22 SHEET NO. 708 OF 889

PLOTTED: THURSDAY, JULY 06, 2006 AT 04:30 PM  
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